

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method of disintegrating biofilm, flocculent bulked sludge or bulked biologically active sludge in an aqueous system, which comprises adding to or forming in ~~said~~an aqueous medium containing biofilm, flocculent bulked sludge or bulked biologically active sludge one or more chlorinated hydantoins in an amount sufficient to form a concentration of from about 0.01 to 100 ppm (expressed as Cl₂) of such chlorinated hydantoins in said aqueous medium.
2. (Original) The method of claim 1, wherein the chlorinated hydantoin is monochlorodialkylhydantoin, dichlorodialkylhydantoin or a mixture thereof, wherein the alkyl group contains from 1 to 6 carbon atoms.
3. (Original) The method of claim 2, wherein the chlorinated hydantoin is monochlorodimethylhydantoin, dichlorodimethylhydantoin, or a mixture thereof.
4. (Original) The method of claim 1, wherein the chlorinated hydantoin is added to the aqueous medium as a solution or an aqueous slurry.
- 5 (Original) The method of claim 1, wherein the chlorinated hydantoin is added to the aqueous medium as a solid.
- 6 (Original) The method of claim 1, wherein the treated aqueous medium is exposed to sunlight.
7. (Original) The method of claim 1, wherein the chlorinated hydantoin is formed in situ by adding to the aqueous medium chlorine from a chlorine source and an alkylated hydantoin in a molar ratio of chlorine to alkylated hydantoin of from 1:100 to 100:1.

8. (Original) The method of claim 7, wherein the molar ratio of chlorine to alkylated hydantoin of from 1:10 to 10:1.
9. (Original) The method of claim 1, wherein the aqueous medium contains biofilm adhering to a substrate.
10. (Original) The method of claim 1, wherein the chlorinated hydantoins are added with performance additives.
11. (Original) The method of claim 10, wherein the performance additives are dispersants, biodispersants, scale control agents, corrosion inhibitors, surfactants, biocides, cleaning agents, and mixtures thereof.
12. (Original) The method of claim 1, wherein the aqueous system is a cooling water system, a pulping or papermaking system, an air washer system, an agricultural potable and drainage system, a food preparation or cleaning system, an oil industry system, a potable water system, a household water-related system, or an institutional water-related system.
13. (Original) A method of removing biofilm from a substrate in an aqueous medium which comprises: adding to or forming in said aqueous medium monochlorodimethylhydantoin, dichlorodimethylhydantoin, or a mixture thereof in an amount of from about 0.05 to 25 ppm (expressed as Cl_2) of such chlorinated hydantoins.
14. (Original) The method of claim 13, wherein the chlorinated dimethylhydantoin is formed in situ by adding to the aqueous medium chlorine from a chlorine source and dimethylhydantoin in a molar ratio of chlorine to dimethylhydantoin of from 1:10 to 10:1.
15. (Original) The method of claim 14, wherein the chlorine source is sodium hypochlorite or gaseous chlorine.

16. (Original) A method of disintegrating flocculent bulked sludge or bulked biologically active sludge present in an aqueous medium which comprises: adding to or forming in said aqueous medium monochlorodimethylhydantoin, dichlorodimethylhydantoin, or a mixture thereof in an amount of from about 0.05 to 25 ppm (expressed as Cl_2) of such chlorinated hydantoins.

17. (Original) The method of claim 16, wherein the chlorinated dimethylhydantoin is formed in situ by adding to the aqueous medium chlorine from a chlorine source and dimethylhydantoin in a molar ratio of chlorine to dimethylhydantoin of from 1:10 to 10:1.

18. (Original) The method of claim 17, wherein the chlorine source is sodium hypochlorite or gaseous chlorine.